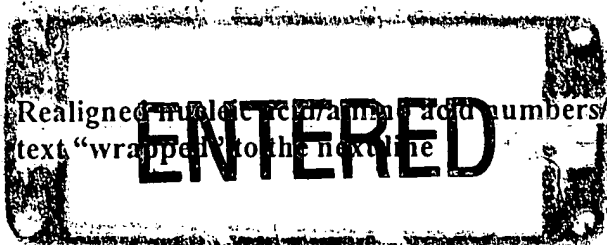


PCT/10

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/506,406

CRF Edit Date: 9/13/04
Edited by: 12



Realigned nucleic sequence and numbers/text in cases where the sequence text was wrapped to the next line

Corrected the SEQ ID NO. Sequence numbers edited were:

Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

Deleted: ___ invalid beginning/end-of-file text ; ___ page numbers

Inserted mandatory headings/numeric identifiers, specifically:

Moved responses to same line as heading/numeric identifier, specifically:

Other:

replaced "Homo sapiens" with "Homo sapiens" (globally)



PCT

RAW SEQUENCE LISTING

DATE: 09/13/2004

PATENT APPLICATION: US/10/506,406

TIME: 16:34:52

Input Set : N:\AMC\506406.txt

Output Set: N:\CRF4\09132004\J506406.raw

```

4 <110> APPLICANT: Swiercz, Rafal
5      Selman, Steven
6      Jankun, Jerzy
7      Chorostowska-Wynimko, Joanna
8      Skrzypczak-Jankun, Ewa
10 <120> TITLE OF INVENTION: MODIFIED PLASMINOGEN ACTIVATOR INHIBITOR
11      TYPE-1 AND METHODS BASED THEREON
14 <130> FILE REFERENCE: 9471-011-999
C--> 16 <140> CURRENT APPLICATION NUMBER: US/10/506,406
C--> 17 <141> CURRENT FILING DATE: 2004-09-01
19 <150> PRIOR APPLICATION NUMBER: PCT/US03/06679
20 <151> PRIOR FILING DATE: 2003-03-04
22 <150> PRIOR APPLICATION NUMBER: 60/361,670
23 <151> PRIOR FILING DATE: 2002-03-04
25 <160> NUMBER OF SEQ ID NOS: 3
27 <170> SOFTWARE: FastSEQ for Windows Version 4.0
29 <210> SEQ ID NO: 1
30 <211> LENGTH: 2876
31 <212> TYPE: DNA
32 <213> ORGANISM: Homo sapiens
34 <220> FEATURE:
35 <221> NAME/KEY: CDS
36 <222> LOCATION: (76)...(1281)
37 <223> OTHER INFORMATION: human PAI-1 plus 5' and 3' sequence
39 <400> SEQUENCE: 1
40 gaattcctgc agctcagcag ccgcccgcag agcaggacga accgccaatc gcaaggcacc 60
41 tctgagaact tcagg atg cag atg tct cca gcc ctc acc tgc cta gtc ctg 111
42      Met Gln Met Ser Pro Ala Leu Thr Cys Leu Val Leu
43      1          5          10
45 ggc ctg gcc ctt gtc ttt ggt gaa ggg tct gct gtg cac cat ccc cca 159
46 Gly Leu Ala Leu Val Phe Gly Glu Gly Ser Ala Val His His Pro Pro
47      15          20          25
49 tcc tac gtg gcc cac ctg gcc tca gac ttc ggg gtg agg gtg ttt cag 207
50 Ser Tyr Val Ala His Leu Ala Ser Asp Phe Gly Val Arg Val Phe Gln
51      30          35          40
53 cag gtg gcg cag gcc tcc aag gac cgc aac gtg gtt ttc tca ccc tat 255
54 Gln Val Ala Gln Ala Ser Lys Asp Arg Asn Val Val Phe Ser Pro Tyr
55 45          50          55          60
57 ggg gtg gcc tcg gtg ttg gcc atg ctc cag ctg aca aca gga gga gaa 303
58 Gly Val Ala Ser Val Leu Ala Met Leu Gln Leu Thr Thr Gly Gly Glu
59      65          70          75
61 acc cag cag cag att caa gca gct atg gga ttc aag att gat gac aag 351
62 Thr Gln Gln Gln Ile Gln Ala Ala Met Gly Phe Lys Ile Asp Asp Lys

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/506,406

DATE: 09/13/2004

TIME: 16:34:52

Input Set : N:\AMC\506406.txt

Output Set: N:\CRF4\09132004\J506406.raw

63	80	85	90	
65	ggc atg gcc ccc gcc ctc cgg cat ctg tac aag gag ctc atg ggg cca	399		
66	Gly Met Ala Pro Ala Leu Arg His Leu Tyr Lys Glu Leu Met Gly Pro			
67	95 100 105			
69	tgg aac aag gat gag atc agc acc aca gac gcg atc ttc gtc cag cgg	447		
70	Trp Asn Lys Asp Glu Ile Ser Thr Thr Asp Ala Ile Phe Val Gln Arg			
71	110 115 120			
73	gat ctg aag ctg gtc cag ggc ttc atg ccc cac ttc ttc agg ctg ttc	495		
74	Asp Leu Lys Leu Val Gln Gly Phe Met Pro His Phe Phe Arg Leu Phe			
75	125 130 135 140			
77	cgg agc acg gtc aag caa gtg gac ttt tca gag gtg gag aga gcc aga	543		
78	Arg Ser Thr Val Lys Gln Val Asp Phe Ser Glu Val Glu Arg Ala Arg			
79	145 150 155			
81	ttc atc atc aat gac tgg gtg aag aca cac aca aaa ggt atg atc agc	591		
82	Phe Ile Ile Asn Asp Trp Val Lys Thr His Thr Lys Gly Met Ile Ser			
83	160 165 170			
85	aac ttg ctt ggg aaa gga gcc gtg gac cag ctg aca cgg ctg gtg ctg	639		
86	Asn Leu Leu Gly Lys Gly Ala Val Asp Gln Leu Thr Arg Leu Val Leu			
87	175 180 185			
89	gtg aat gcc ctc tac ttc aac ggc cag tgg aag act ccc ttc ccc gac	687		
90	Val Asn Ala Leu Tyr Phe Asn Gly Gln Trp Lys Thr Pro Phe Pro Asp			
91	190 195 200			
93	tcc agc acc cac cgc cgc ctc ttc cac aaa tca gac ggc agc act gtc	735		
94	Ser Ser Thr His Arg Arg Leu Phe His Lys Ser Asp Gly Ser Thr Val			
95	205 210 215 220			
97	tct gtg ccc atg atg gct cag acc aac aag ttc aac tat act gag ttc	783		
98	Ser Val Pro Met Met Ala Gln Thr Asn Lys Phe Asn Tyr Thr Glu Phe			
99	225 230 235			
101	acc acg ccc gat ggc cat tac tac gac atc ctg gaa ctg ccc tac cac	831		
102	Thr Thr Pro Asp Gly His Tyr Tyr Asp Ile Leu Glu Leu Pro Tyr His			
103	240 245 250			
105	ggg gac acc ctc agc atg ttc att gct gcc cct tat gaa aaa gag gtg	879		
106	Gly Asp Thr Leu Ser Met Phe Ile Ala Ala Pro Tyr Glu Lys Glu Val			
107	255 260 265			
109	cct ctc tct gcc ctc acc aac att ctg agt gcc cag ctc atc agc cac	927		
110	Pro Leu Ser Ala Leu Thr Asn Ile Leu Ser Ala Gln Leu Ile Ser His			
111	270 275 280			
113	tgg aaa ggc aac atg acc agg ctg ccc cgc ctc ctg gtt ctg ccc aag	975		
114	Trp Lys Gly Asn Met Thr Arg Leu Pro Arg Leu Leu Val Leu Pro Lys			
115	285 290 295 300			
117	ttc tcc ctg gag act gaa gtc gac ctc agg aag ccc cta gag aac ctg	1023		
118	Phe Ser Leu Glu Thr Glu Val Asp Leu Arg Lys Pro Leu Glu Asn Leu			
119	305 310 315			
121	gga atg acc gac atg ttc aga cag ttt cag gct gac ttc acg agt ctt	1071		
122	Gly Met Thr Asp Met Phe Arg Gln Phe Gln Ala Asp Phe Thr Ser Leu			
123	320 325 330			
125	tca gac caa gag cct ctc cac gtc gcg cag gcg ctg cag aaa gtg aag	1119		
126	Ser Asp Gln Glu Pro Leu His Val Ala Gln Ala Leu Gln Lys Val Lys			
127	335 340 345			

RAW SEQUENCE LISTING

DATE: 09/13/2004

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Input Set : N:\AMC\506406.txt

Output Set: N:\CRF4\09132004\J506406.raw

```

129 atc gag gtg aac gag agt ggc acg gtg gcc tcc tca tcc aca gct gtc 1167
130 Ile Glu Val Asn Glu Ser Gly Thr Val Ala Ser Ser Ser Thr Ala Val
131 350 355 360
133 ata gtc tca gcc.cgc atg gcc ccc gag gag atc atc atg gac aga ccc 1215
134 Ile Val Ser Ala Arg Met Ala Pro Glu Glu Ile Ile Met Asp Arg Pro
135 365 370 375 380
137 ttc ctc ttt gtg gtc cgg cac aac ccc aca gga aca gtc ctt ttc atg 1263
138 Phe Leu Phe Val Val Arg His Asn Pro Thr Gly Thr Val Leu Phe Met
139 385 390 395
141 ggc caa gtg atg gaa ccc tgaccctggg gaaagacgcc ttcactctggg 1311
142 Gly Gln Val Met Glu Pro
143 400
145 acaaaactgg agatgcatcg ggaaagaaga aactccgaag aaaagaattt tagtgtaa 1371
146 gactctttct gaaggaagag aagacatttg ccttttgta aaagatggta aaccagatct 1431
147 gtctccaaga ccttggcctc tccttgaggg acctttaggt caaactccct agtctccacc 1491
148 tgagaccctg ggagagaagt ttgaagcaca actcccttaa ggtctccaaa ccagacggtg 1551
149 acgcctgctg gaccatctgg ggcacctgct tccacccgtc tctctgcccc ctcggtctg 1611
150 cagacctggg tcccaactgag gccctttgca ggatggaaact acggggctta caggagcttt 1671
151 tgtgtgctcg gtagaaacta tttctgttcc agtcacattg ccatcactct tgtactgcct 1731
152 gccaccgctg aggaggtgg tgacaggcca aaggccagtg gaagaaacac cctttcatct 1791
153 cagagtccac tgtggcactg gccaccctc cccagtacag ggggtgctgca ggtggcagag 1851
154 tgaatgtccc ccatcatgtg gcccaactct cctggcctgg ccatctccct cccagaaac 1911
155 agtgtgcatg ggttattttg gagtgtaggg gacttgttta ctcatgaag cagatttctg 1971
156 cttcctttta ttttatagg aatagaggaa gaaatgtcag atgcgtgccc agctcttcac 2031
157 cccccaatct ctgggtgggg aggggtgtac ctaaaattt atcatatcct tgcccttgag 2091
158 tgcttgtag agagaaagag aactactaag gaaaataata ttatttaaac tcgctcctag 2151
159 tgtttctttg tggctgtgt caccgtatct cagggaagtcc agccacttga ctggcacaca 2211
160 cccctccgga catccagcgt gacggagccc acactgccac ctgtggccg cctgagaccc 2271
161 tcgcgcccc cgcgcccccc gcgcctct tttcccctt gatggaaatt gaccatacaa 2331
162 tttcatcctc ctccaggga tcaaaaggac ggagtggggg gacagagact cagatgagga 2391
163 cagagtgggt tccaatgtgt tcaatagatt taggagcaga aatgcaaggg gctgcatgac 2451
164 ctaccaggac agaactttcc ccaattacag ggtgactcac agccgcattg gtgactcact 2511
165 tcaatgtgtc atttccggct gctgtgtgtg agcagtggac acgtgagggg ggggtgggtg 2571
166 agagagacag gcagctcgga ttcaactacc ttagataata tttctgaaaa cctaccagcc 2631
167 agagggtagg gcacaaagat ggatgtaatg cactttggga ggccaaggcg ggaggattgc 2691
168 ttgagcccag gagttcaaga ccagcctggg caacatacca agacccccgt ctctttaaaa 2751
169 atatatatat tttaaatata cttaaata tatttcta atctttaaat atatatatat 2811
170 attttaaaga ccaatttatg ggagaattgc acacagatgt gaaatgaatg taatctaata 2871
171 gaagc 2876
173 <210> SEQ ID NO: 2
174 <211> LENGTH: 402
175 <212> TYPE: PRT
176 <213> ORGANISM: Homo sapiens
178 <220> FEATURE:
179 <223> OTHER INFORMATION: human PAI-1 amino acid sequence, including signal peptide
181 <400> SEQUENCE: 2
182 Met Gln Met Ser Pro Ala Leu Thr Cys Leu Val Leu Gly Leu Ala Leu
183 1 5 10 15
184 Val Phe Gly Glu Gly Ser Ala Val His His Pro Pro Ser Tyr Val Ala

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RAW SEQUENCE LISTING

DATE: 09/13/2004

PATENT APPLICATION: US/10/506,406

TIME: 16:34:52

Input Set : N:\AMC\506406.txt

Output Set: N:\CRF4\09132004\J506406.raw

```

185          20          25          30
186 His Leu Ala Ser Asp Phe Gly Val Arg Val Phe Gln Gln Val Ala Gln
187          35          40          45
188 Ala Ser Lys Asp Arg Asn Val Val Phe Ser Pro Tyr Gly Val Ala Ser
189          50          55          60
190 Val Leu Ala Met Leu Gln Leu Thr Thr Gly Gly Glu Thr Gln Gln Gln
191 65          70          75          80
192 Ile Gln Ala Ala Met Gly Phe Lys Ile Asp Asp Lys Gly Met Ala Pro
193          85          90          95
194 Ala Leu Arg His Leu Tyr Lys Glu Leu Met Gly Pro Trp Asn Lys Asp
195          100         105         110
196 Glu Ile Ser Thr Thr Asp Ala Ile Phe Val Gln Arg Asp Leu Lys Leu
197          115         120         125
198 Val Gln Gly Phe Met Pro His Phe Phe Arg Leu Phe Arg Ser Thr Val
199          130         135         140
200 Lys Gln Val Asp Phe Ser Glu Val Glu Arg Ala Arg Phe Ile Ile Asn
201 145         150         155         160
202 Asp Trp Val Lys Thr His Thr Lys Gly Met Ile Ser Asn Leu Leu Gly
203          165         170         175
204 Lys Gly Ala Val Asp Gln Leu Thr Arg Leu Val Leu Val Asn Ala Leu
205          180         185         190
206 Tyr Phe Asn Gly Gln Trp Lys Thr Pro Phe Pro Asp Ser Ser Thr His
207          195         200         205
208 Arg Arg Leu Phe His Lys Ser Asp Gly Ser Thr Val Ser Val Pro Met
209          210         215         220
210 Met Ala Gln Thr Asn Lys Phe Asn Tyr Thr Glu Phe Thr Thr Pro Asp
211 225         230         235         240
212 Gly His Tyr Tyr Asp Ile Leu Glu Leu Pro Tyr His Gly Asp Thr Leu
213          245         250         255
214 Ser Met Phe Ile Ala Ala Pro Tyr Glu Lys Glu Val Pro Leu Ser Ala
215          260         265         270
216 Leu Thr Asn Ile Leu Ser Ala Gln Leu Ile Ser His Trp Lys Gly Asn
217          275         280         285
218 Met Thr Arg Leu Pro Arg Leu Leu Val Leu Pro Lys Phe Ser Leu Glu
219          290         295         300
220 Thr Glu Val Asp Leu Arg Lys Pro Leu Glu Asn Leu Gly Met Thr Asp
221 305         310         315         320
222 Met Phe Arg Gln Phe Gln Ala Asp Phe Thr Ser Leu Ser Asp Gln Glu
223          325         330         335
224 Pro Leu His Val Ala Gln Ala Leu Gln Lys Val Lys Ile Glu Val Asn
225          340         345         350
226 Glu Ser Gly Thr Val Ala Ser Ser Ser Thr Ala Val Ile Val Ser Ala
227          355         360         365
228 Arg Met Ala Pro Glu Glu Ile Ile Met Asp Arg Pro Phe Leu Phe Val
229          370         375         380
230 Val Arg His Asn Pro Thr Gly Thr Val Leu Phe Met Gly Gln Val Met
231 385         390         395         400
232 Glu Pro
235 <210> SEQ ID NO: 3

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/506,406

DATE: 09/13/2004

TIME: 16:34:52

Input Set : N:\AMC\506406.txt

Output Set: N:\CRF4\09132004\J506406.raw

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236 <211> LENGTH: 379
237 <212> TYPE: PRT
238 <213> ORGANISM: Homo sapiens
240 <220> FEATURE:
241 <223> OTHER INFORMATION: human PAI-1 mature amino acid sequence
243 <400> SEQUENCE: 3
244 Val His His Pro Pro Ser Tyr Val Ala His Leu Ala Ser Asp Phe Gly
245 1 5 10 15
246 Val Arg Val Phe Gln Gln Val Ala Gln Ala Ser Lys Asp Arg Asn Val
247 20 25 30
248 Val Phe Ser Pro Tyr Gly Val Ala Ser Val Leu Ala Met Leu Gln Leu
249 35 40 45
250 Thr Thr Gly Gly Glu Thr Gln Gln Ile Gln Ala Ala Met Gly Phe
251 50 55 60
252 Lys Ile Asp Asp Lys Gly Met Ala Pro Ala Leu Arg His Leu Tyr Lys
253 65 70 75 80
254 Glu Leu Met Gly Pro Trp Asn Lys Asp Glu Ile Ser Thr Thr Asp Ala
255 85 90 95
256 Ile Phe Val Gln Arg Asp Leu Lys Leu Val Gln Gly Phe Met Pro His
257 100 105 110
258 Phe Phe Arg Leu Phe Arg Ser Thr Val Lys Gln Val Asp Phe Ser Glu
259 115 120 125
260 Val Glu Arg Ala Arg Phe Ile Ile Asn Asp Trp Val Lys Thr His Thr
261 130 135 140
262 Lys Gly Met Ile Ser Asn Leu Leu Gly Lys Gly Ala Val Asp Gln Leu
263 145 150 155 160
264 Thr Arg Leu Val Leu Val Asn Ala Leu Tyr Phe Asn Gly Gln Trp Lys
265 165 170 175
266 Thr Pro Phe Pro Asp Ser Ser Thr His Arg Arg Leu Phe His Lys Ser
267 180 185 190
268 Asp Gly Ser Thr Val Ser Val Pro Met Met Ala Gln Thr Asn Lys Phe
269 195 200 205
270 Asn Tyr Thr Glu Phe Thr Thr Pro Asp Gly His Tyr Tyr Asp Ile Leu
271 210 215 220
272 Glu Leu Pro Tyr His Gly Asp Thr Leu Ser Met Phe Ile Ala Ala Pro
273 225 230 235 240
274 Tyr Glu Lys Glu Val Pro Leu Ser Ala Leu Thr Asn Ile Leu Ser Ala
275 245 250 255
276 Gln Leu Ile Ser His Trp Lys Gly Asn Met Thr Arg Leu Pro Arg Leu
277 260 265 270
278 Leu Val Leu Pro Lys Phe Ser Leu Glu Thr Glu Val Asp Leu Arg Lys
279 275 280 285
280 Pro Leu Glu Asn Leu Gly Met Thr Asp Met Phe Arg Gln Phe Gln Ala
281 290 295 300
282 Asp Phe Thr Ser Leu Ser Asp Gln Glu Pro Leu His Val Ala Gln Ala
283 305 310 315 320
284 Leu Gln Lys Val Lys Ile Glu Val Asn Glu Ser Gly Thr Val Ala Ser
285 325 330 335
286 Ser Ser Thr Ala Val Ile Val Ser Ala Arg Met Ala Pro Glu Glu Ile

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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/506,406

DATE: 09/13/2004

TIME: 16:34:53

Input Set : N:\AMC\506406.txt

Output Set: N:\CRF4\09132004\J506406.raw

L:16 M:270 C: Current Application Number differs, Replaced Current Application Number

L:17 M:271 C: Current Filing Date differs, Replaced Current Filing Date